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1 Audio watermarking for monitoring and copy protection

Jaap Haitsma, Michiel van der Veen, Ton Kalker, Fons Bruekers

November 2000 **MULTIMEDIA '00:** Proceedings of the 2000 ACM workshop

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Based on existing technology used in image and video watermarking, w
technique. The embedding algorithm operates in frequency domain, wh
are slightly modified. ...

Keywords: audio, broadcast monitoring, copy protection, watermark d

2 The advanced access content system's use of digital watermarking

Jeffrey Lotspiech

October 2006 **MCPS '06:** Proceedings of the 4th ACM international workshc

Publisher: ACM ✎ Request Permissions

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The Advanced Access Content System (AACS) is the copy protection sch
DVD movies. Fundamentally, AACS is based on crypto-graphic principles
watermarking: first ...

Keywords: AACS, broadcast encryption, content protection, encryption

3 PlataJanus: an audio annotation watermarking framework

Jana Dittmann, Martin Steinebach

October 2001 **MM&Sec '01:** Proceedings of the 2001 workshop on Multime

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The focus of audio watermarking research in recent years have been co
mechanisms. Therefore the robustness and security of audio watermark
parameters. Transparency, payload and ...

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Keywords: annotation, audio watermarking, business models, framewo

4 Secure delivery of handwritten signature

Samir Kumar Bandyopadhyay, Debnath Bhattacharyya, Anindya Jyoti Pal
October 2006 **Ubiquity** , Volume 2006 Issue October
Publisher: ACM

Full text available: Html   Additional Information: full citation, abs

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A number of researchers have proposed using digital marks to provide c
property. One way of data hiding is digital signature, copyright label or
characterizes the person ...

Keywords: HSEA, HSIA, decoder, encoder, formatter and comparator

5 Comparing the usage of digital rights management systems in the m

Marc Fetscherin, Matthias Schmid
September 2003 **ICEC '03:** Proceedings of the 5th international conference
Publisher: ACM

Full text available: Pdf (212.60 KB)   Additional Information: full citation, abs

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The business of content providers is being threatened by technology adv
such as the Internet or peer-to-peer file sharing systems. The result is a
on-line as well ...

Keywords: digital content, digital content distribution, digital rights ma

6 A four-layer model for security of digital rights management

Eric Diehl
October 2008 **DRM '08:** Proceedings of the 8th ACM workshop on Digital rig
Publisher: ACM Request Permissions

Full text available: Pdf (2.62 MB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 28,   Downloads (12 Months): 301,   Downl

Defining Digital Rights Management (DRM) is a complex task. There is r
legal, economic, functional, and technical definitions. This complexity in
modeling of DRM. Each ...

Keywords: digital rights management, drm, dtcp, dvb, oma, rights enf

7 Audio watermarking algorithm for real-time speech integrity and auth

Song Yuan, Sorin A. Huss
September 2004 **MM&Sec '04:** Proceedings of the 2004 workshop on Multir
Publisher: ACM Request Permissions

Full text available: Pdf (259.52 KB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 61, Downlo

Data integrity and source origin authentication are essential topics for r
method, such as MAC, is not very applicable to overcome the distortion
communication. In this paper ...

Keywords: integrity and source origin authentication, real-time multim
speech watermarking

8 Estimation of recording location using audio watermarking
Yuta Nakashima, Ryuki Tachibana, Masafumi Nishimura, Noboru Babaguch
September 2006 **MM&Sec '06:** Proceedings of the 8th workshop on Multim
Publisher: ACM Request Permissions
Full text available: Pdf (209.98 KB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 28, Downloa

In this paper, we propose a novel application of audio watermarking, es
the paper is to determine the seat location in a theater at which a bootl
camera. In the ...

Keywords: bootleg, digital audio watermarking, estimation, recording l

9 Hermite polynomials as provably good functions to watermark white
Teddy Furon
September 2006 **MM&Sec '06:** Proceedings of the 8th workshop on Multim
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In the watermark detection scenario, also known as zero-bit watermark
message, is inserted in content. The watermark detector checks for the
content. The article looks at ...

Keywords: detection theory, pitman noether theorem, watermarking

10 A survey of RST invariant image watermarking algorithms
Dong Zheng, Yan Liu, Jiying Zhao, Abdulmotaleb El Saddik
July 2007   **Computing Surveys (CSUR)** , Volume 39 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (5.53 MB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 564, Downl

In this article, we review the algorithms for rotation, scaling and transla
There are mainly two categories of RST invariant image watermarking a
transformed image before conducting ...

Keywords: Digital image watermarking, Fourier-Mellin transform, ILPM points, moments, template matching

11 Communications of the ACM: Volume 51 Issue 2
February 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (3.89 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 215,   Downloads (12 Months): 1472,   Dov

12 Dynamic graph-based software fingerprinting
Christian S. Collberg, Clark Thomborson, Gregg M. Townsend
October 2007 **Transactions on Programming Languages and Systems**
Publisher: ACM Request Permissions
Full text available: Pdf (1.48 MB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 217,   Downl

Fingerprinting embeds a secret message into a cover message. In medi
copyright notice and the cover a digital image. Fingerprinting an object
when such theft has occurred, ...

Keywords: Software piracy, software protection, watermarking

13 Publicly verifiable ownership protection for relational databases
Yingjiu Li, Robert Huijie Deng
March 2006   **ASIACCS '06:** Proceedings of the 2006 ACM Symposium on I
security
Publisher: ACM Request Permissions
Full text available: Pdf (332.50 KB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 66,   Downlo

Today, watermarking techniques have been extended from the multime
protect the ownership of data even after the data are published or distri
schemes for relational databases ...

Keywords: certificate, ownership protection, public verifiability, relatioi

14 Invisible watermarking based on creation and robust insertion-extrac
Saraju P. Mohanty, Bharat K. Bhargava
November 2008 **Transactions on Multimedia Computing, Communicati**
Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (11.81 MB)   Additional Information: full citation, abs

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This article presents a novel invisible robust watermarking scheme for e
in an image. The novelty lies in determining a perceptually important su
of the watermark ...

Keywords: Watermarking, content protection, copyright protection, im

15 A secure multicast protocol with copyright protection

Hao-hua Chu, Lintian Qiao, Klara Nahrstedt, Hua Wang, Ritesh Jain

April 2002   **SIGCOMM Computer Communication Review** , Volume 32 Is

Publisher: ACM

Full text available: Pdf (301.97 KB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 98,   Downloa

We present a simple, efficient, and secure multicast protocol with copyr
network environment. There is a wide variety of multimedia applications
multicast protocol, e.g., the ...

Keywords: copyright protection, key distribution, multicast security, w

16 Trustworthy 100-year digital objects: Evidence after every witness is

Henry M. Gladney

July 2004   **Transactions on Information Systems (TOIS)** , Volume 22 I

Publisher: ACM Request Permissions

Full text available: Pdf (1.24 MB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 155,   Downl

In ancient times, wax seals impressed with signet rings were affixed to
digital counterpart is a message authentication code fixed firmly to each
sealed together ...

17 Behavioral synthesis techniques for intellectual property protection

Farinaz Koushanfar, Inki Hong, Miodrag Potkonjak

July 2005   **Transactions on Design Automation of Electronic Syste**

Publisher: ACM Request Permissions

Full text available: Pdf (439.81 KB)   Additional Information: full citation, abs

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We introduce dynamic watermarking techniques for protecting the value
compilation tools and reusable design components. The essence of the r
and timing constraints which ...

Keywords: Intellectual property protection, behavioral synthesis, wate

18 Robust correlation of encrypted attack traffic through stepping stones

Xinyuan Wang, Douglas S. Reeves

October 2003 **CCS '03:** Proceedings of the 10th ACM conference on Compu

Publisher: ACM Request Permissions

Full text available: Pdf (331.63 KB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 42,   Downlo

Network based intruders seldom attack directly from their own hosts, bu

intermediate "stepping stones" to conceal their identity and origin. To ic
necessary to be able ...

Keywords: correlation, intrusion tracing, robustness, stepping stones

19 Query-based watermarking for XML data
Xuan Zhou, HweeHwa Pang, Kian-Lee Tan
March 2007   ASIACCS '07: Proceedings of the 2nd ACM symposium on In
            security
Publisher: ACM Request Permissions
Full text available: Pdf (489.34 KB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 66, Downlo

As increasing amount of XML data is exchanged over the internet, copyi
an important requirement for many applications. In this paper, we intro
based on digital ...

20 A semi-dynamic multiple watermarking schemefor java applications
Changjiang Zhang, Jianmin Wang, Clark Thomborson, Chaokun Wang, Chri
November 2009 DRM '09: Proceedings of the nineth ACM workshop on Digi
Publisher: ACM Request Permissions
Full text available: Pdf (590.23 KB)   Additional Information: full citation, abs

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Download

Software protection and security has been a more and more important i
unauthorized use and modification, a great many techniques have been
address this issue through a prevention ...

Keywords: multiple watermarking, semi-dynamic, software piracy, soft
watermarking

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